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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/602,993	06/24/2003	Franklin R. Smith	BW-DKT00048	1605	
32175	7590 03/24/2004		EXAM	EXAMINER	
BORGWARNER INC. POWERTRAIN TECHNICAL CENTER 3800 AUTOMATION AVENUE, SUITE 100			CORRIGAN, JAIME W		
			ART UNIT	PAPER NUMBER	
AUBURN HI	LLS, MI 48326-1782		3748		
			DATE MAILED: 03/24/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/602,993	SMITH ET AL.			
Office Action Summary		Examiner	Art Unit			
		Jaime W Corrigan	3748			
The M Period for R ply	AILING DATE of this communication app	ears on the cover sheet with th	e correspondence address			
THE MAILING - Extensions of tir after SIX (6) MC - If the period for - If NO period for - Failure to reply v Any reply receiv	ED STATUTORY PERIOD FOR REPLY G DATE OF THIS COMMUNICATION. me may be available under the provisions of 37 CFR 1.13 NTHS from the mailing date of this communication. reply specified above is less than thirty (30) days, a reply reply is specified above, the maximum statutory period within the set or extended period for reply will, by statute, ed by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status						
1)☐ Respor	nsive to communication(s) filed on	_·				
2a)∏ This ac	tion is FINAL . 2b)⊠ This	action is non-final.				
3)☐ Since tl	·—					
closed	in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.			
Disposition of C	laims					
4)⊠ Claim(s	s) <u>1-5</u> is/are pending in the application.					
4a) Of the	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s	Claim(s) is/are allowed.					
6)⊠ Claim(s	Claim(s) <u>1 and 5</u> is/are rejected.					
7) Claim(s	Claim(s) <u>2-4</u> is/are objected to.					
8) Claim(s	s) are subject to restriction and/o	r election requirement.				
Application Pap	ers					
9)∐ The spe	ecification is objected to by the Examine	r.				
	wing(s) filed on is/are: a) acc		ne Examiner.			
	nt may not request that any objection to the					
Replace	ement drawing sheet(s) including the correct	ion is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
11)∐ The oat	h or declaration is objected to by the Ex	aminer. Note the attached Off	ice Action or form PTO-152.			
Priority under 3	5 U.S.C. § 119					
12)☐ Acknow	ledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	9(a)-(d) or (f).			
	b)☐ Some * c)☐ None of:	, , , , , , , , , , , , , , , , , , , ,	(-) (-) (-)			
	Certified copies of the priority documents	s have been received.				
	Certified copies of the priority documents		cation No.			
	Copies of the certified copies of the prior					
	pplication from the International Bureau		ŭ			
* See the a	attached detailed Office action for a list	of the certified copies not rece	rived.			
Attachment(s)	0 11					
1) X Notice of Refer	rences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948)	4) ∭ Interview Summ Paper No(s)/Mai				
3) Information Dis	sclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Inform	al Patent Application (PTO-152)			
	ail Date <u>6-24-03</u> .	6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Mikame et al. (PN 6,386,164).

Regarding claim 1 Mikame discloses a vane-type rotor having at least one lobe (See Figure 10 (24)) secured to the camshaft for rotation therewith, the rotor (See Figure 2 (19)) being non-oscillatable with respect to the camshaft; an annular housing (See Figure 10 (20)) surrounding the rotor and having at least one recess, the at least one recess having a circumferential extent greater (See Figure 10 (16)) than the circumferential extent of the at least one lobe and receiving the at least one lobe, the annular housing being rotatable with the camshaft and the rotor, and being oscillatable with respect to the camshaft and the rotor (See Abstract); locking means reactive to engine oil pressure for preventing relative circumferential motion between the housing and the rotor at one of a plurality of relative circumferential position of the housing and the rotor during periods of low (See Column 3 Lines 11-18) engine oil pressure; and at least one metallic strap (See Figure 10 (35)) having an end secured to the annular

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housing and an opposed end secured to the rotor for urging the locking means into locking engagement with the rotor during period of low engine oil pressure.

Regarding claim 5 Miakame discloses the rotor (See Figure 2 (19)) comprises at least three circumferentially spaced apart vanes (See Figure 2 (24)), and wherein the annular housing comprises a like number of circumferentially spaced apart recesses (See Figure 2 (30), (31)).

Allowable Subject Matter

Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nakayoshi (PN 6,058,897), Fukuhara et al. (PN 5,957,098) disclose similar timing devices.

Any inquiry concerning this communication from the examiner should be directed to Examiner Jaime Corrigan whose telephone number is (703) 308-2639. The examiner can normally be reached on Monday - Friday from 8:30 a.m. - 6:00 p.m. 2nd Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (703) 308-2623. The fax number for this group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

JC

March 22, 2004

Jaime Corrigan

Patent Examiner

Art Unit 3748

THOMAS DEMON

TECHNOLOGY CENTER 3700